

RPMI-1640 Medium, no L-Glutamine, no Calcium

Cat. No.: G4537

Product Information

Product Name	Cat. No.	Spec.
RPMI-1640 Medium, no L-Glutamine, no Calcium	G4537-500ML	500 mL

Product Description/Introduction

RPMI-1640 is a cell culture medium developed by the Roswell Park Memorial Institute (RPMI). This medium was originally designed specifically for lymphocytes culture, now is widely used for various normal cell and cancer cell culture, especially for cell suspension culture, and is one of the most widely used medium.

This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, without protein or growth factors. Need to add 5-10% serum or serum-free additives depending on the cell type.

This product is filtered and sterilized by 0.1 μ m membrane, pH 7.0-7.4, containing 11.1 mM D-glucose, phenol red indicator, calcium nitrate has not been added, no L-glutamine, no sodium pyruvate, no HEPES buffer system.

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 12 months.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation to avoid contamination.
2. For best results, do not freeze and thaw repeatedly.
3. For your safety and health, please wear safety glasses, gloves or protective clothing.

For Research Use Only!

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G4537 RPMI-1640 Formula

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Inorganic salts		
Glycine	10	0.133	Magnesium Sulfate (MgSO ₄) (anhyd.)	48.84	0.407
L-Arginine hydrochloride	241.86	1.149	Potassium Chloride (KCl)	400	5.33
L-Asparagine hydrate	56.82	0.379	Sodium Bicarbonate (NaHCO ₃)	2000	23.8
L-Aspartic Acid	20	0.15	Sodium Chloride (NaCl)	6000	103.4
L-Cystine dihydrochloride	65.2	0.208	Sodium Phosphate monobasic (NaH ₂ PO ₄) (anhyd.)	800	5.63
L-Glutamic Acid	20	0.136	Other components		
L-Histidine HCl H ₂ O	20.22	0.097	D-Glucose (Dextrose)	2000	11.11
L-Hydroxyproline	20	0.153	Glutathione (reduced)	1.0	0.003
L-Isoleucine	50	0.382	Phenol Red	4.6	0.013
L-Leucine	50	0.382			
L-Lysine hydrochloride	40	0.219			
L-Methionine	15	0.101			
L-Phenylalanine	15	0.091			
L-Proline	20	0.174			
L-Serine	30	0.286			
L-Threonine	20	0.168			
L-Tryptophan	5.0	0.025			
L-Tyrosine Disodium Salt Dihydrate	28.83	0.111			
L-Valine	20	0.171			
L-Glutamine	-	-			
L-Alanyl-L-Glutamine	-	-			
Vitamins					
Biotin	0.2	0.00082			
Choline chloride	3.0	0.02143			
D-Calcium pantothenate	0.25	0.00052			
Folic Acid	1.0	0.00227			

Niacinamide	1.0	0.00820
Para-Aminobenzoic Acid	1.0	0.00730
Pyridoxine hydrochloride	1.0	0.00485
Riboflavin	0.2	0.00053
Thiamine hydrochloride	1.0	0.00297
Vitamin B12	0.005	0.00000369
i-Inositol	35	0.19444
